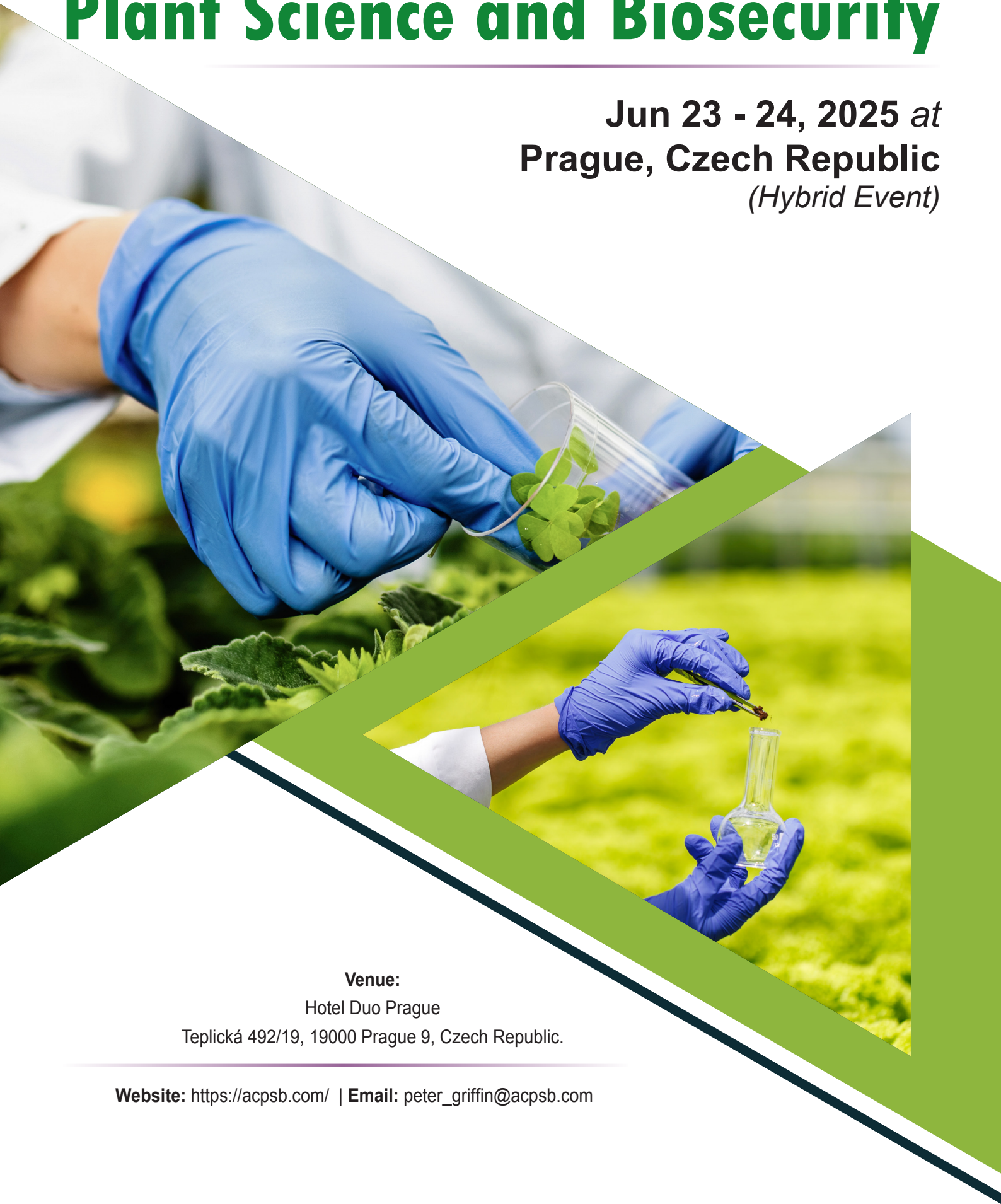


**5<sup>th</sup> Annual Congress on**

# **Plant Science and Biosecurity**

**Jun 23 - 24, 2025 at  
Prague, Czech Republic  
(Hybrid Event)**



**Venue:**

Hotel Duo Prague

Teplická 492/19, 19000 Prague 9, Czech Republic.

**Website:** <https://acpsb.com/> | **Email:** [peter\\_griffin@acpsb.com](mailto:peter_griffin@acpsb.com)



Meeting Hall: Zurich		
08:00-08:45   Registrations		
08:45-09:00   Opening Ceremony & Moderator Speech		
Moderator: Andy J. Perez, <i>Universidad de Concepcion, Chile</i>		
KEYNOTE TALKS		
Neil O. Anderson, <i>University of Minnesota, USA</i>	09:00-09:30	Title: Genomics and phenomics among and within extant populations of the trifecta <i>Chrysanthemum arcticum</i> L. species complex
Frederic Lens, <i>Naturalis Biodiversity Center, The Netherlands</i>	09:30-10:00	Title: The role of drought on the evolution of woodiness in flowering plants
Marta Berrocal-Lobo, <i>Universidad Politécnica de Madrid, Spain</i>	10:00-10:30	Title: Epigenetic Modulation by Natural Metabolites: Enhancing Plant Resistance
David Ian Givens, <i>University of Reading, UK</i>	10:30-11:00	Title: Dietary transition from animal to plant-based foods: Are there risks to health?
11:00-11:20   Group Photo & Refreshment Break		

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Technical Session I		
Session Chair: Neil O. Anderson, <i>University of Minnesota, USA</i>		
Andrés A Borges <i>IPNA-CSIC, Spain</i>	11:20-11:40	Title: ABA-receptor agonist iSB09 decreases soil water consumption and increases tomato CO2 assimilation and water use efficiency under drought stress.
Jozsef Kutasi <i>Albitech Biotechnology Ltd, Hungary</i>	11:40-12:00	Title: Comparative analysis of soil degradation and soil structure in croplands affected by erosion and soil dehydration treated with a biological soil crust forming algal culture
Nobuyuki Uozumi, <i>Tohoku University, Japan</i>	12:00-12:20	Title: Cation transport for homeostasis and stress adaptation in plants
Lin Zhu, <i>Anhui Agricultural University, China</i>	12:20-12:40	Title: Fluid-structural simulations of determining the pesticide formulation during the spray
Biruta Bankina <i>Latvia university of life sciences and technologies, Latvia</i>	12:40-13:00	Title: New insights into legume diseases and the diversity of their causal agents
13:00-14:00   Lunch Break		

Technical Session II		
Session Chair: Andres A Borges, IPNA-CSIC, Spain		
<div>Hsu-Liang Hsieh,</div> <div>National Taiwan University, Taiwan</div>	14:00-14:20	<div>Title: Cross-talks between phytochromes and FIN219/JAR1 in regulating the photomorphogenic development of Arabidopsis seedlings</div>
<div>Andy J. Perez,</div> <div>Universidad de Concepcion, Chile</div>	14:20-14:40	<div>Title: Spatiotemporal Insights into Plant Defense: Integrating Untargeted Metabolomics and Mass Spectral Imaging to Unveil Eucalyptus Responses to Gonipterus platensis Herbivory</div>
<div>Aysegul Akpinar,</div> <div>Bursa Uludag University, Turkey</div>	14:40-15:00	<div>Title: A supplement that can be effective in coping with UV-B stress in plants</div>
<div>Joseph Su,</div> <div>University of Texas Southwestern Medical Center</div>	15:00-15:20	<div>Title: Climate Change, Food Contaminants, and Rising Liver Cancer Burden in Texas: Intersecting Pathways of Aflatoxin and Arsenic Exposure</div>
<div>Koji Tojo,</div> <div>Shinshu University, Japan</div>	15:20-15:40	<div>Title: Monitoring climate change in alpine regions through the evolutionary ecology of organisms adapted to cool environments</div>
<div>Africa Fernandez Prior,</div> <div>Instituto de la Grasa-CSIC, Spain</div>	15:40-16:00	<div>Title: Evolution of Hydroxytyrosol, Hydroxytyrosol 4-β-d-Glucoside, 3,4-Dihydroxyphenylglycol and Tyrosol in Olive Oil Solid Waste or “Alperujo”</div>

16:00-16:20   Refreshment Break		
<div><b>Iris Sammarco,</b> <i>The Czech Academy of Sciences (CAS), Czech Republic</i></div>	<b>16:20-16:40</b>	<b>Title: Epigenetics and transgenerational plasticity in the face of climate change: a matter of reproductive mode?</b>
<div><b>Sandipan Banerjee,</b> <i>Czech University of Life Sciences Prague, Czech Republic</i></div>	<b>16:40-17:00</b>	<b>Title: Microbes and microbial strategies in carcinogenic polycyclic aromatic hydrocarbons remediation: a systematic review</b>
End of Day-1		

Day  
2

TUESDAY

5<sup>th</sup> Annual Congress on

# Plant Science and Biosecurity

June 23 - 24, 2025 at Prague, Czech Republic (*Hybrid Event*)

**Moderator:** Sylvia Mutinda, *University of Toronto, Canada*

## KEYNOTE TALKS

<b>Aruna Kilaru,</b> <i>East Tennessee State University, United States</i>	<b>09:40-10:10</b>	<b>Title: Reprogramming Lipid Biosynthesis: From Avocado to Moss for Sustainable Oil Production</b>
<b>Nandula Raghuram,</b> <i>Guru Gobind Singh Indraprastha University, India</i>	<b>10:10-10:40</b>	<b>Title: Enabling crop Improvement for Nitrogen Use Efficiency in rice: From phenotype to candidate genes/processes and the role of G-protein signalling</b>
<b>Juan Sasturain,</b> <i>BASF SE, Germany</i>	<b>10:40-11:10</b>	<b>Title: Minimizing operator exposure: field data analysis of three closed transfer systems for pesticide mixing and loading</b>

**11:10-11:30 | Refreshment Break**

## Technical Session III

**Session Chair:** Marta Berrocal-Lobo, *Universidad Politécnica de Madrid, Spain*

<b>Laura Shannon,</b> <i>University of Minnesota, United States</i>	<b>11:30-11:50</b>	<b>Title: The reinvention of potato as a diploid informs our understanding of the tetraploid genome</b>
<b>Yousry A El-Kassaby,</b> <i>Faculty of Forestry, The university of British Columbia, Canada</i>	<b>11:50-12:10</b>	<b>Title: Genomic Pairwise Kinship: A Catalyst for Innovation in Forest and Quantitative Genetics</b>
<b>Jiansheng Liang,</b> <i>Southern University of Science and Technology, China</i>	<b>12:10-12:30</b>	<b>Title: Recent Progress in Understanding the Multifaceted Roles of RACK1 in Plant Growth and Stress Responses</b>



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<b>Yehoram Leshem,</b> <i>Israel Migal Galilee research center, Israel</i>	<b>12:30-12:50</b>	<b>Title: Stigma secreted microRNA in pear and its potential role in fire blight control</b>
<b>Sergio Chevilly Tena,</b> <i>Universitat Politecnica de Valen- cia-CSIC, Spain</i>	<b>12:50-13:10</b>	<b>Title: Genome-wide and functional characterization of the enzymes involved in the two-step last stage of sulfur assimilation in Beta vulgaris</b>
<b>13:10-14:10   Lunch Break</b>		
<b>Technical Session IV</b>		
<b>Session Chair: Nandula Raghuram, Guru Gobind Singh Indraprastha University, India</b>		
<b>Idalia Kasprzyk,</b> <i>University of Rzeszów, Poland</i>	<b>14:10-14:30</b>	<b>Title: Airborne pollen grains and fungal spores as ecosystem disservices</b>
<b>John Derera,</b> <i>CGIAR/IITA, Nigeria</i>	<b>14:30-14:50</b>	<b>Title: Modern improvement of multiple tropical crops to deliver breakthrough products fast</b>
<b>Padmakumar Varijakshapanicker,</b> <i>International Livestock Research Insti- tute, Nepal</i>	<b>14:50-15:10</b>	<b>Title: Multi-dimensional crop improvement to improve livestock productivity</b>
<b>Sylvia Mutinda,</b> <i>University of Toronto, Canada</i>	<b>15:10-15:30</b>	<b>Title: Cell wall dynamics in the parasitic plant (Striga) and rice pathosystem</b>
<b>Guillermo Rodriguez Gutierrez,</b> <i>Instituto de la Grasa-CSIC, Spain</i>	<b>15:30-15:50</b>	<b>Title: Application of Thermo-Malaxation Followed by Three-Phase Centrifugation to Enable the Biorefinery of Alperujo, the Main By-Product of Olive Oil</b>



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TUESDAY

5<sup>th</sup> Annual Congress on

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<b>Víctor Manuel Ramos Munoz,</b> <i>Instituto de la Grasa-CSIC, Spain</i>	<b>15:50-16:10</b>	<b>Title: The problem of copper use is an opportunity for its recovery and to improve the agronomic sustainability of the olive grove</b>
<b>Tatyana Gorshkova</b> <i>Kazan Institute of Biochemistry and Biophysics, Russian Academy of Sciences, Russia</i>	<b>16:10-16:30</b>	<b>Building up the mechanical stability of a plant organism</b>
<b>16:30-16:50   Refreshment Break</b>		
<b>Panel Discussion &amp; Closing Ceremony</b>		

# Virtual Scientific Program

CET ZONE



Join Zoom Meeting



Meeting ID: 860 8870 0394

Passcode: YD2d4U



Day  
1

MONDAY

5<sup>th</sup> Annual Congress on

# Plant Science and Biosecurity

June 23 - 24, 2025 at Prague, Czech Republic (*Hybrid Event*)

<b>Shujun Zhou,</b> <i>Jiangxi Agricultural University, China</i>	<b>11:00-11:30</b>	<b>Keynote Talk:</b> <b>Special phenomena and mechanism in Lilium breeding</b>
<b>Lijun An,</b> <i>Northwest A&amp;F University, China</i>	<b>11:30-11:50</b>	<b>Title: BEACH domain-containing protein SPIRRIG facilitates microtubule cytoskeleton- associated trichome morphogenesis in Arabidopsis</b>
<b>Xiaolin Yang,</b> <i>China Agricultural University, China</i>	<b>11:50-12:10</b>	<b>Title: Diversifying crop rotation increases food production, reduces net greenhouse gas emissions and improves soil health</b>
<b>Yongfeng Guo,</b> <i>Tobacco Research Institute, Chinese Academy of Agricultural Sciences, China</i>	<b>12:10-12:30</b>	<b>Title: Identification of CEP and CLE peptides encoded by the tobacco (<i>Nicotiana tabacum</i>) genome and characterization of their roles in osmotic and salt stress responses</b>
<b>Xingan Hao</b> <i>Northwest Agriculture and Forestry University, China</i>	<b>12:30-12:50</b>	<b>Title: Interaction Between Barley Yellow Dwarf Virus-GAV Movement Protein and VOZ Proteins Delays Flowering of Plant</b>
<b>Hemanta Kumar Mondal,</b> <i>Parul university, India</i>	<b>12:50-13:10</b>	<b>Title: Screening for drought-tolerant mungbean root nodule bacteria with multiple plant growth promoting traits in Aridisol</b>

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<b>Lydia Pramitha,</b> <i>Karunya Institute of Technology and Sciences, Coimbatore, India</i>	<b>13:10-13:30</b>	<b>Title: Evaluation of genetic variability and trait correlations among landraces and traditional varieties of small millets from the hilly regions of Tamil Nadu</b>
<b>Deepika Yadav,</b> <i>CSIR-Central Institute of Medicinal and Aromatic Plants, India</i>	<b>13:30-13:50</b>	<b>Title: Comparative Uptake, Translocation, and Accumulation of Chlorpyrifos in Two Varieties of <i>Withania somnifera</i> Under Hydroponic Conditions</b>
<b>Sachin Kumar,</b> <i>Chaudhary Charan Singh University, India</i>	<b>13:50-14:10</b>	<b>Title: Physical map of QTL for agronomic traits, corresponding genes, and KASP markers with emphasis on terminal heat stress tolerance in wheat</b>
<b>Awadhesh Kumar,</b> <i>Mizoram University, India</i>	<b>14:10-14:30</b>	<b>Title: Ethnomedicinal study of medicinal plants used by different tribes in Mizoram, India</b>
<b>Pramod Kandoth,</b> <i>Central University of Kerala, India</i>	<b>14:30-14:50</b>	<b>Title: Genetic improvement of Grass Pea: Recent advances and hurdles ahead</b>
<b>Mara Miculan,</b> <i>KAUST, Saudi Arabia</i>	<b>14:50-15:10</b>	<b>Title: Transcriptome profiling of eight Zea mays lines identifies genes responsible for the resistance to <i>Fusarium verticillioides</i></b>
<b>Nino Davitashvili,</b> <i>Ili State University, Georgia</i>	<b>15:10-15:30</b>	<b>Title: First description and conservation implications of a unique stand of the Caucasian wingnut in Lapankuri (Georgia)</b>

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MONDAY

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# Plant Science and Biosecurity

June 23 - 24, 2025 at Prague, Czech Republic (*Hybrid Event*)

<b>Hajanirina Rakotomanana,</b> <i>University of Antananarivo, Madagascar</i>	<b>15:30-15:50</b>	<b>Title: The impact of ATBC 2019 in Madagascar scientific community</b>
<b>Yair Zarmi,</b> <i>Ben Gurion University of the Negev, Israel</i>	<b>15:50-16:10</b>	<b>Title: Photon statistics, a rate-limiting time scale and algal bio productivity</b>
<b>Miqueas Sandoval,</b> <i>National Institute of Agricultural Technology (INTA), Argentina</i>	<b>16:10-16:30</b>	<b>Title: Critical periods for waterlogging effects on yield and grain components in sunflower (<i>Helianthus annuus</i>), soybean (<i>Glycine max</i>) and Sorghum (<i>Sorghum bicolor</i>): a comparative study</b>
<b>Fangneng Huang,</b> <i>Louisiana State University Agricultural Center, United States</i>	<b>16:30-16:50</b>	<b>Title: Lessons and prospects from three decades of global IRM for Bt crops</b>
<b>Ismail Dweikat,</b> <i>University of Nebraska, United States</i>	<b>16:50-17:20</b>	<b>Keynote Mutations in the ALS Enzyme Affect Shattercane [<i>Sorghumbicolor</i> (L.) Moench] Response to ALS-inhibiting Herbicides</b>

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TUESDAY

5<sup>th</sup> Annual Congress on

# Plant Science and Biosecurity

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<b>Robert Graham Quirk,</b> <i>Australian Cane Farmers Association, Australia</i>	<b>09:30-10:00</b>	<b>Keynote Talk:</b> <b>Increasing sugarcane productivity and environmental improvement in acid sulphate soils: a win win system</b>
<b>Tomoko Fukuda,</b> <i>Mie University, Japan</i>	<b>10:00-10:20</b>	<b>Title: Phylogeography and chromosome number variation in <i>Micranthes nelsoniana</i> and related species (<i>Saxifragaceae</i>) in Northeast Asia</b>
<b>Atsuko Miyawaki-Kuwakado,</b> <i>Kyushu University, Japan</i>	<b>10:20-10:40</b>	<b>Title: Molecular phenology reveals the influence of climate change on dormancy break timing in 'Somei- yoshino' flowering cherry tree</b>
<b>Yueh Cho,</b> <i>Institute of Plant and Microbial Biology, Academia Sinica, Taiwan</i>	<b>10:40-11:00</b>	<b>Title: Arabidopsis AGB1 participates in salinity response through bZIP17- mediated unfolded protein response</b>
<b>Jin-Ying Gou,</b> <i>China Agricultural University, China</i>	<b>11:00-11:20</b>	<b>Title: Suppressing wheat sucrose phosphate synthase 1-B protects wheat against stripe rust</b>
<b>Peipei Wang,</b> <i>Kunpeng Institute of Modern Agriculture at Foshan, China</i>	<b>11:20-11:40</b>	<b>Title: Prediction of plant complex traits via integration of multi-omics data</b>
<b>Gui Jie Lei,</b> <i>School of Agriculture, Yunnan University, Kunming, China</i>	<b>11:40-12:00</b>	<b>Title: Breeding for low-Cd and high-Zn crops to enhance mineral security and grain quality</b>



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June 23 - 24, 2025 at Prague, Czech Republic (*Hybrid Event*)

<b>Hao Hu,</b> <i>Peking University, China</i>	<b>12:00-12:20</b>	<b>Title: Nocturnal burst emissions of germacrene D from the open disk florets of pyrethrum flowers induce moths to oviposit on a nonhost and improve pollination success</b>
<b>Benzhi Zhou,</b> <i>Research Institute of Subtropical Forestry, Chinese Academy of Forestry, China</i>	<b>12:20-12:40</b>	<b>Title: Effect of imposed drought on carbon storage and soil respiration of moso bamboo stand in southeast China</b>
<b>Resmi Mohankumar Saraladevi,</b> <i>Sree Neelakanta Government Sanskrit College, India</i>	<b>12:40-13:00</b>	<b>Title: Growth, Structural Adaptations, and Physiological Fluctuations of <i>Alternanthera tenella</i> Colla. Towards Cadmium Stress</b>
<b>Madhubala Thakre,</b> <i>ICAR-IARI, New Delhi, India</i>	<b>13:00-13:20</b>	<b>Title: Pulp colour in guava: Trait genetics and molecular background</b>
<b>Ch Bhanupriya,</b> <i>IIT Kharagpur, India</i>	<b>13:20-13:40</b>	<b>Title: Callus-mediated organogenesis and regeneration of <i>Sorghum bicolor</i></b>
<b>Namitha Nayak,</b> <i>Birla Institute of Technology and Science, India</i>	<b>13:40-14:00</b>	<b>Title: The N-region sequence context impacts the chloroplast import efficiency of multi-TMD protein</b>
<b>Benjamin Azu Okorley,</b> <i>University of Ghana, Legon, Ghana</i>	<b>14:00-14:20</b>	<b>Title: Characterisation of <i>Fusarium</i> and <i>Neocosmospora</i> species associated with crown rot and wilt disease of African eggplant (<i>Solanum aethiopicum</i>) in Ghana</b>

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<b>Luca Bonisoli,</b> <i>University of Modena and Reggio Emilia, Italy</i>	<b>14:20-14:40</b>	<b>Title: Outdoor and indoor detection of plant ultrasonic emissions with a contactless microphone</b>
<b>Veronica Gregis,</b> <i>Università degli Studi di Milano, Italy</i>	<b>14:40-15:00</b>	<b>Title: Behind phyllotaxis, within the meristem: a REM-ARF complex shapes inflorescence in <i>Arabidopsis thaliana</i></b>
<b>Yaroslava B. Mosiichuk,</b> <i>Institute of Water Problems and Land Reclamation of NAAS, Ukraine</i>	<b>15:00-15:20</b>	<b>Title: Bioenergy feedstock production on marginal lands using sewage sludge</b>
<b>Kirsty McLaughlin,</b> <i>Agri-Food and Biosciences Institute, UK</i>	<b>15:20-15:40</b>	<b>Title: Environmental DNA as a tool for improving plant pathogen surveillance in forest systems</b>
<b>Hariet L. Hinz,</b> <i>Global Director Invasives, CABI, Delémont, Switzerland</i>	<b>15:40-16:00</b>	<b>Title: Enhancing pre-release studies for weed biocontrol agents: a review of existing and emerging tools</b>
<b>Sylwia Budzynska,</b> <i>Poznan University of Life Sciences, Poland</i>	<b>16:00-16:20</b>	<b>Title: How much arsenic can trees accumulate?</b>
<b>Sonia Salaria,</b> <i>Clemson University, United States</i>	<b>16:20-16:40</b>	<b>Title: <i>Cicer pinnatifidum</i>- A wild reservoir for introgression of valuable economic traits and disease resistance into cultivated chickpea</b>

Day  
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<b>Jagdeep Sidhu,</b> <i>South Dakota State University, United States</i>	<b>16:40-17:00</b>	<b>Title: Cortical cell size regulates root metabolic cost</b>
<b>Amita Kaundal,</b> <i>Utah State University, USA</i>	<b>17:00-17:20</b>	<b>Title: Exploring Transcriptional-Memory Landscape For Salinity Stress In Maize Seedlings</b>
<b>Shouan Zhang,</b> <i>University of Florida, United States</i>	<b>17:20-17:50</b>	<b>Keynote: Interaction between soil salinity and bacterial spot disease in tomato</b>
<b>John B McCulloch,</b> <i>University of Georgia, United States</i>	<b>17:50-18:10</b>	<b>Title: Effects of combining soil-applied insecticide and Bt corn for integrated pest management and resistance management of western corn rootworm (Coleoptera: Chrysomelidae)</b>
<b>Svetlana N. Yurgel,</b> <i>USDA ARS, United States</i>	<b>18:10-18:30</b>	<b>Title: Fungal microbiomes associated with soil, root and nodules of food- quality winter peas in the Pacific Northwest, USA</b>
<b>Karen Yazmin Ruiz Mondragon,</b> <i>National Autonomous University of Mexico, Mexico</i>	<b>18:30-18:50</b>	<b>Title: Evolution history and the importance of genomic diversity facing climate change. The case of Agave marmorata Roezl., an agave used for mezcal production in México</b>
<b>Silvana Consuelo Ferrari Usandizaga,</b> <i>Instituto nacional de Tecnología Agropecuaria, Argentina</i>	<b>18:50-19:10</b>	<b>Title: Heterosis on Morphological, Reproductive, and Productive Behavior of <i>Acroceras macrum</i> Stapf Hybrids</b>

WE WISH TO SEE YOU AGAIN AT

6<sup>th</sup> ANNUAL CONGRESS ON  
**PLANT SCIENCE AND BIOSECURITY**

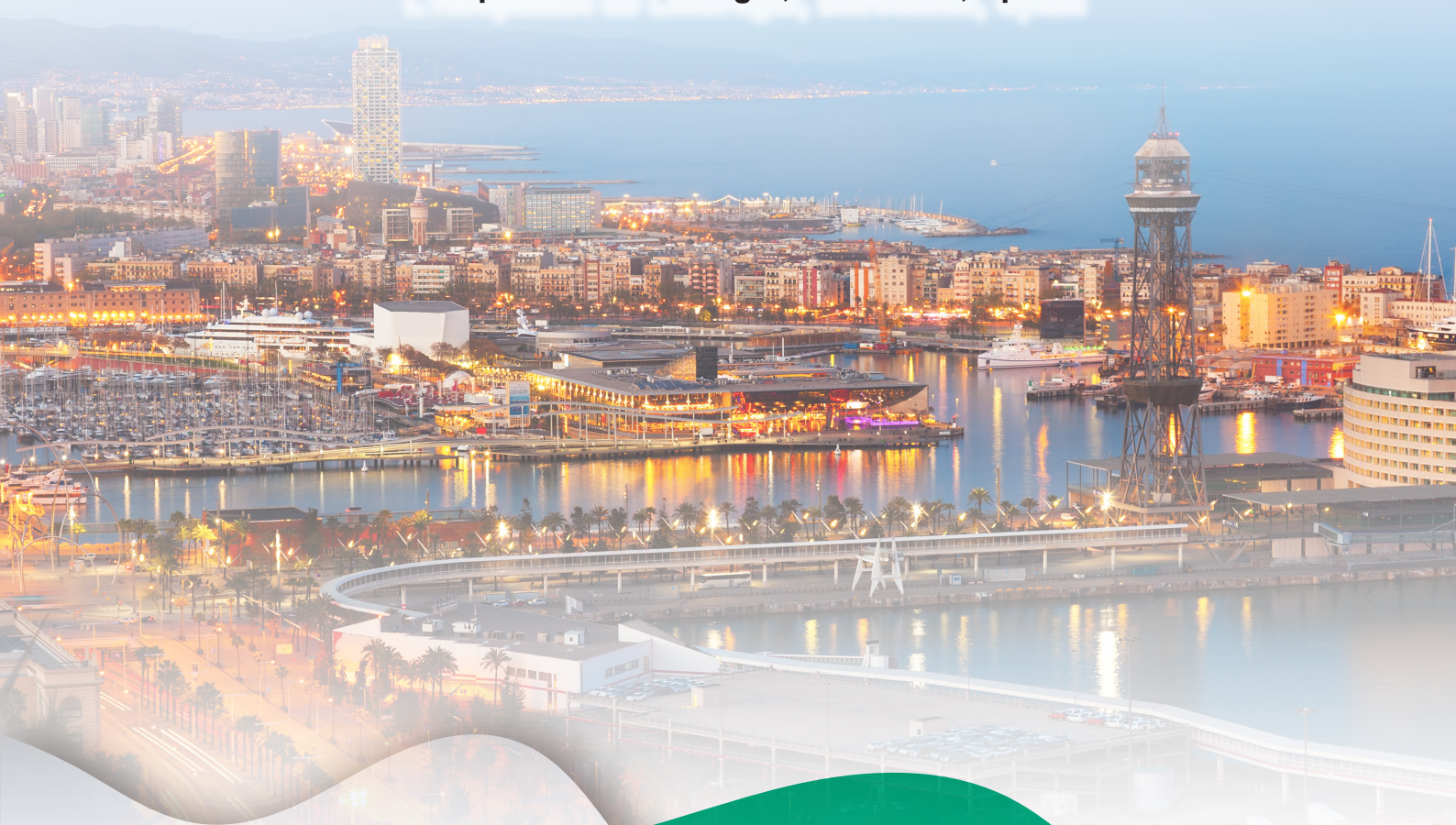
June 22 - 23, 2026 at Barcelona, Spain

Website: <https://acpsb.com/> Email: [peter\\_griffin@acpsb.com](mailto:peter_griffin@acpsb.com)

**Venue:**

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